

OCT 19 2006

Attorney Docket RSW920010101US1
Serial No. 10/051,558

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Listing of Claims:

1. (Currently amended) A method of managing meta data in a computing device, the method comprising:

collecting meta data resulting from use of the computing device, the meta data comprising application data that is used in or by applications associated with the computing device usable in an application and context data for identifying the context in which the application data are used;

determining statistical information associated with the user's past behavior in using the meta data, the statistical information indicating relationships between the meta data;

storing the meta data and the statistical information in a storage of the computing device;
and

retrieving, from the storage, application data that would be most appropriate for a current context of using the using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information.

2. (Previously presented) The method of claim 1, further comprising:

applying the retrieved application data in the current context.

3. (Original) The method of claim 1, wherein the context data identify at least one of the following: user roles, uniform resource identifiers (URLs), file names, and/or form names pertaining to the application data.

4. (Previously presented) The method of claim 1, wherein the application data comprise at least one of the following: page display setting data, file display setting data, user ID/password combinations, user's preference data, bookmarks, and authentication data.

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5. (Previously presented) The method of claim 4, wherein the authentication data comprise at least one of the following: certificates, or public keys.
6. (Original) The method of claim 1, wherein the meta data are stored in (key, value) pairs.
7. (Original) The method of claim 1, wherein the statistical information indicates frequencies in which particular application data are used together in particular contexts.
8. (Previously presented) The method of claim 1, wherein the computing device implements a Common Data Security Architecture (CDSA), and-retrieving, from the storage, application data that would be most appropriate for a current context of using the application based on the context data and the statistical information is performed by a CDSA add-on module.
9. (Currently Amended) The method of claim 1, wherein the current context comprises at least one of the following: opening a web page, filling in a computer form, filling in a password-changing form, providing a certificate, opening a computer file, ~~or processing~~ processing a computer file, or executing an application program.
10. (Previously presented) The method of claim 1, further comprising:
providing a graphical user interface (GUI) for allowing the user to organize the stored meta data.
11. (Original) The method of claim 10, wherein the GUI displays a graphical tool in a cylindrical configuration for organizing the stored meta data.
12. (Previously presented) The method of claim 1, wherein retrieving, from the storage, application data that would be most appropriate for a current context of using the application based on the context data and the statistical information is performed using heuristics algorithms.

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13. (Previously presented) The method of claim 1, wherein retrieving, from the storage, application data that would be most appropriate for a current context of using the application based on the context data and the statistical information comprises:

formulating search requirements based on the current context of using the application;

and

executing a search based on the search requirements.

14. (Original) The method of claim 13, wherein the search requirements specify weighted properties of the current context of using the application.

15. (Previously presented) The method of claim 14, further comprising:

applying the retrieved application data in the current context; and

applying predetermined application data in the current context if no such most appropriate application data are retrieved in the retrieving step.

16. (Previously presented) The method of claim 1, wherein the current context is for filling in a computer form, and the method comprises:

automatically filling in the computer form with said most appropriate application data.

17. (Previously presented) The method of claim 16, further comprising:

retrieving, from the storage, alternative application data that are related to the current context of filling in the computer form; and

presenting the alternative application data to a user for the user's consideration.

18. (Previously presented) The method of claim 16, wherein the computer form is a password-changing form, and the retrieved application data comprise a user identification and a password.

19. (Previously presented) The method of claim 18, wherein automatically filling in the computer form with said most appropriate application data comprises:

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presenting the password in the form in an obfuscated format;
determining whether presenting the actual password to a user is safe; and
presenting the actual password in a non-obfuscated format when it is determined to be safe to present the actual password.

20. (Previously presented) The method of claim 19, wherein determining whether presenting the actual password to the user is safe is performed based on input from the user.

21. (Previously presented) The method of claim 19, further comprising:
replacing the password stored in the storage with a new password if the new password has been accepted by a receiving party.

22. (Currently Amended) A computer program product for managing meta data in a computing device, the computer program product comprising a computer readable storage medium having computer readable program code embodied in said medium, said computer-readable program code comprising:

computer readable program code configured to collect meta data resulting from use of the computing device, the meta data comprising application data that is used in or by applications associated with the computing device ~~usable in an application~~ and context data for identifying the context in which the application data are used;

computer readable program code configured to determine statistical information associated with the user's past behavior in using the meta data, the statistical information indicating relationships between the meta data;

computer readable program code configured to store the meta data and the statistical information in a storage of the computing device; and

computer readable program code configured to retrieve, from the storage, application data that would be most appropriate for a current context of ~~using the~~ using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information.

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23. (Previously presented) The computer program product of claim 22, further comprising:
computer readable program code configured to apply the retrieved application data in the
current context.
24. (Original) The computer program product of claim 22, wherein the context data identify at
least one of the following: user roles, uniform resource identifiers (URIs), file names, and/or
form names pertaining to the application data.
25. (Previously presented) The computer program product of claim 22, wherein the application
data comprise at least one of the following: page display setting data, file display setting data,
user ID/password combinations, user's preference data, bookmarks, and authentication data.
26. (Previously presented) The computer program product of claim 25, wherein the
authentication data comprise at least one of the following: certificates, or public keys.
27. (Original) The computer program product of claim 22, wherein the meta data are stored in
(key, value) pairs.
28. (Original) The computer program product of claim 22, wherein the statistical
information indicates frequencies in which particular application data are used together in
particular contexts.
29. (Original) The computer program product of claim 22, wherein the computing device
implements a Common Data Security Architecture (CDSA), and the computer program product
is implemented as a CDSA add-on module.
30. (Previously presented) The computer program product of claim 22, further comprising:

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computer readable program code configured to update the computing device with meta data resulting from use of the computing device in the current context.

31. (Previously presented) The computer program product of claim 22, wherein the current context comprises at least one of the following: opening a web page, filling in a computer form, filling in a password-changing form, providing a certificate, opening a computer file, processing a computer file, or executing an application program.

32. (Previously presented) The computer program product of claim 22, further comprising:
computer readable program code configured to provide a graphical user interlace (GUI) for allowing the user to organize the stored meta data.

33. (Currently Amended) The computer program product of claim 32, wherein the GUI displays a graphical tool in a cylindrical configuration for organizing the stored meta-data data.

34. (Previously presented) The computer program product of claim 22, wherein the computer readable program code configured to retrieve the most appropriate meta data is implemented using heuristics algorithms.

35. (Previously presented) The computer program product of claim 22, wherein the computer readable program code configured to retrieve the most appropriate meta data comprises:

computer readable program code configured to formulate search requirements based on the current context of using the application; and

computer readable program code configured to execute a search based on the search requirements.

36. (Original) The computer program product of claim 35, wherein the search requirements specify weighted properties of the current context of using the application.

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37. (Previously presented) The computer program product of claim 36, further comprising:
computer readable program code configured to apply the retrieved application data in the current context; and

computer readable program code configured to apply predetermined application data in the current context if no such most appropriate application data are retrieved.

38. (Previously presented) The computer program product of claim 22, wherein the current context is for filling in a computer form, and the computer program product comprises:

computer readable program code configured to automatically fill in the computer form with said most appropriate application data.

39. (Previously presented) The computer program product of claim 38, further comprising:

computer readable program code configured to retrieve, from the storage, alternative application data that are related to the current context of filling in the computer form; and

computer readable program code configured to present the alternative application data to a user for the user's consideration.

40. (Previously presented) The computer program product of claim 38, wherein the computer form is a password-changing form, and the retrieved application data comprise a user identification and a password.

41. (Previously presented) The computer program product of claim 40, wherein computer readable program code configured to fill in the computer form comprises:

computer readable program code configured to present the password in the form in an obfuscated format;

computer readable program code configured to determine whether presenting the actual password to a user is safe; and

computer readable program code configured to present the actual password in a non-obfuscated format when it is determined to be safe to present the actual password.

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42. (Previously presented) The computer program product of claim 41, wherein the computer executable instructions for determining whether presenting the actual password to a user is safe is executed based on input from the user.

43. (Previously presented) The computer program product of claim 41, further comprising:
computer readable program code configured to replace the password stored in the storage with a new password if the new password has been accepted by a receiving party.

44. (Currently Amended) A system for managing meta data in a secure manner, the system comprising:

a computing device capable of communicating with other communication devices through a communications network, the computing device comprising,

a plurality of applications selectably executable on the computing device, a security architecture for selectively providing security-based services to at least one of the plurality of applications,

a data repository module, provided as an add-in module to the security architecture, for collecting meta data resulting from use of the computing device, the meta data ~~including~~ comprising application data that is used in or by applications associated with the computing device ~~usable in an application~~ and context data for identifying the context in which the application data are used, determining statistical information associated with the user's past behavior in using the meta data, the statistical information indicating relationships between the meta data, storing the meta data and the statistical information in a storage of the computing device, and retrieving, from the storage, application data that would be most appropriate for a current context of ~~using the~~ using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information.

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45. (Previously Presented) The system of claim 44, wherein the data repository module comprises:
- the storage for storing the meta data;
 - a first interlace for managing a process of storing the meta data in the storage; and
 - a second interface for retrieving from the storage said most appropriate meta data for the current context.
46. (Original) The system of claim 45, wherein the second interface formulates search requirements based on the current context of using the application, and executes a search based on the search requirements to retrieve said most appropriate meta data.
47. (Original) The system of claim 46, wherein the search requirements specify weighted properties of the current context of using the application.
48. (Previously presented) The system of claim 44, wherein the context data comprise at least one of the following: user roles, uniform resource identifiers (URIs), file names, or form names pertaining to the meta data.
49. (Original) The system of claim 44, wherein the meta data are stored in (key, value) pairs.
50. (Original) The system of claim 44, wherein the security architecture is Common Data Security Architecture (CDSA).
51. (Original) The system of claim 44, wherein the meta data represent at least one of the following: web page settings, file display settings, user ID/password combinations, computer form data, user's preferences, book marks, and authentication data.
52. (Previously presented) The system of claim 51, wherein the authentication data comprise at least one of the following: certificates, or public keys.

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53. (Previously presented) The system of claim 44, wherein the current context comprises at least one of the following:

opening a web page, filling in a computer form, filling in a password-changing form, providing a certificate, opening a computer file, processing a computer file, or executing an application program.

54. (Original) The system of claim 44, further comprising:

a meta data editor for providing a graphical user interlace (GUI) that allows the user to organize the stored meta data.

55. (Original) The system of claim 54, wherein the GUI is a graphical tool in a cylindrical configuration.

56. (New) The method of claim 1, wherein:

said collecting meta data resulting from use of the computing device further comprises verifying that each source is authorized to collect or provide the meta data; and

said retrieving, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information further comprises verifying the select application is authorized to receive meta data before retrieving and providing the appropriate application data to the select application.

57. (New) The method of claim 1, wherein:

said collecting meta data resulting from use of the computing device comprises collecting meta data from at least a first application and a second application; and

said retrieving, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information further comprises

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retrieving the appropriate application data for the first application based upon context information derived from the second application.

58. (New) The method of claim 1, wherein:

said retrieving, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information comprises anticipating a role of the user and retrieving from storage, application data that is most appropriate for that role.

59. (New) The computer program product of claim 22, wherein:

said computer readable program code configured to collect meta data resulting from use of the computing device, the meta data comprising application data that is used in or by applications associated with the computing device and context data for identifying the context in which the application data are used further comprises computer readable program code configured to verify that each source is authorized to collect or provide the meta data; and

said computer readable program code configured to retrieve, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information further comprises computer readable program code configured to verify the select application is authorized to receive meta data before retrieving and providing the appropriate application data to the select application.

60. (New) The computer program product of claim 22, wherein:

said computer readable program code configured to collect meta data resulting from use of the computing device comprises computer readable program code configured to collect meta data from at least a first application and a second application; and

said computer readable program code configured to retrieve, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the

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statistical information further comprises computer readable program code configured to retrieve the appropriate application data for the first application based upon context information derived from the second application.

61. (New) The computer program product of claim 22, wherein:

said computer readable program code configured to retrieve, from the storage, application data that would be most appropriate for a current context of using a select application by anticipating a likely behavior of the user during the current use based on the context data and the statistical information comprises computer readable program code configured to anticipate a role of the user and retrieving from storage, application data that is most appropriate for that role.

62. (New) The system of claim 44, wherein:

the security architecture verifies that each source is authorized to collect or provide the meta data and verifies the select application is authorized to receive meta data before retrieving and providing the appropriate application data to the select application.

63. (New) The system of claim 44, wherein:

the data repository module collects meta data from at least a first application and a second application and retrieves the appropriate application data for the first application based upon context information derived from the second application.

64. (New) The system of claim 44, wherein:

the data repository module anticipates a role of the user and retrieves from storage, application data that is most appropriate for that role.